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10/578,334	05/04/2006	Kyung-Goo Kang	1599-0326PUS1	5694
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			1796	
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			06/01/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/578,334	KANG ET AL.
Office Action Summary	Examiner	Art Unit
	THUY-AI N. NGUYEN	1796
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed on 21 A This action is FINAL. Since this application is in condition for alloward closed in accordance with the practice under A 	s action is non-final. ince except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1- 20 and 22- 26 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1- 20 and 22- 26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers	wn from consideration.	
9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ acc Applicant may not request that any objection to the	cepted or b) objected to by the	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	•	, ,
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat prity documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 21, 2009 has been entered.

Claim 21 is cancelled. Claims 1 and 22 have been amended. Claims 1- 20 and 22- 26 are pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1- 5, 7, 9- 10, 12- 20, and 22 - 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vogt et al. (US. 6,274,570).

Regarding claim 1, Vogt et al. teach the microemulsion composition obtained from the diluting gel composition with water (claim 36) comprising metalaxyl (col. 3: 43-48), wherein the gel composition comprises polyoxyalkylene tristyrylphenyl ether

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(tristyrenephenol ethoxylate (col. 2: 1-5), calcium salt of alkylbenzene sulfonate, and solvents including lactone (col. 2: 1-67), water miscible solvents including glycol, ethanol, pyrrolidone, and amide (i.e. dimethylacetamide and dimethylformamide) (col. 3: 1-13). The composition further comprises other nonionic surfactants or emulsifiers including caster oil ethoxylate and alcohol ethoxylate (col. 1: 60 – col. 2: 5), which do not materially affect the basic and novel characteristic of the claimed invention which are not excluded from the claim (*In re Herz*, 537 F.2d 549, 551-52, 190 USPQ 461, 463 (CCPA 1976), MPEP 2111.03 [R-3]).

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Vogt et al. teach the microemulsion composition formed by diluting the gel composition (abstract) with water (see claims 36 and 39, col. 8). It is commonly known that the amount of water to make microemulsion composition is greater than that needed to make a gel. Vogt et al. do not specifically teach the amount of water being added to form the microemulsion composition. The experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. *In re Aller*, 105 USPQ 233. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to optimize the amount of water being added to the composition within the range as said by the applicant to achieve the desired microemulsion composition. A prima facie case of obviousness may be rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. *In re Boesch and Slaney*, 205 USPQ 215.

Regarding claims 2- 4, Vogt et al. teach the microemulsion composition comprising the anionic form of polyoxyalkylene tristyrylphenyl ether (salt of tristyrenephenol ethoxylate), wherein the salt of the ethoxylate polyoxyalkylene contains from 8 to 30 moles of ethylene oxide (col. 2: 1- 12).

Regarding claim 5, Vogt et al. teach the composition, wherein the calcium salt of alkylbenzene sulfonic acid is the calcium salt of dodecylbenzene sulfonate (col. 2: 29-34).

Regarding claim 7, see rejection of claim 1.

Regarding claims 9 - 10, Vogt et al. teach the composition, wherein the aqueous solvent are ethyleneglycol, ethanol, methyl-2-pyrrolidone, N,N- dimethylacetamide, and N,N- dimethylformamide (col. 3: 5- 13).

Regarding claims 12- 14, Vogt et al. teach the composition, wherein the pesticide (including the metalaxyl, col. 3: 14- 45) is present in an amount of from 10 to 90 percent weight relation to the volume of the composition (col. 4: 23- 28), which is equivalent to 10 to 90 percent by weight of the composition.

Regarding claims 15- 17, Vogt et al. teach the composition, wherein the aqueous solvent (or organic solvent, including water soluble solvent (col. 2: 54- col. 3: 13) is present in an amount of from 1 to 96 percent of the composition (col. 4: 28- 30).

Regarding claim 18- 20, Vogt et al. teach the composition, wherein the amount of emulsifier (surfactants) is from 3 to 80 percent of the composition (col. 4: 30- 35).

Regarding claim 22, see the rejection of claim 1.

Regarding claim 23, Vogt et al. teach the composition as described above. Vogt et al. teach the composition comprising no pigment (dye) that meets 0 percent of pigment as recited by the applicant.

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Regarding claim 24, Vogt et al. teach the microemulsion composition prepared by diluting with water (col. 8, claim 36).

Regarding claim 25, Vogt et al. teach the method for controlling plant disease by diluting the composition as described above with water and applying an effective amount of the dilution to the plant (col. 4: 58- 67).

Claims 6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vogt et al. (US. 6,274,570) as applied to claim 1 above in view of Flahive (US. 5,965,487).

Regarding claims 6, and 8, Vogt et al. teach the composition as described above. However, Vogt et al. do not teach the composition comprising dialkylsuccinic acid. Flahive teaches the herbicidal composition comprising sodium di-2-ethylhexyl sulfosuccinate, and dodecylbenzenesulfonate. Vogt et al. and Flahive are analogous arts because they are in the same filed of endeavor, namely, herbicidal composition. At the time of the invention, it would have been obvious to one of ordinary skill in the art to use sodium di-2-ethylhexyl sulfosuccinate, and dodecylbenzenesulfonate in the teaching of Flahive into the teaching of Vogt et al.. The motivation would be to improve the dilution properties of the active materials (Flahive, col. 3: 5- 30).

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Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vogt et al. (US. 6,274,570) as applied to claims 1, 9, and 10 above, in view of Flahive (US. 5,965,487).

Regarding claim 11, Vogt et al. teach the composition as described above. However, Vogt et al. do not teach the composition comprising propylene glycol. Flahive teaches the herbicidal composition comprising propylene glycol. Vogt et al. and Flahive are analogous arts because they are in the same filed of endeavor, namely, herbicidal composition. At the time of the invention, it would have been obvious to one of ordinary skill in the art to use propylene glycol in the teaching of Flahive into the teaching of Vogt et al.. The motivation would be to improve the dilution properties of the active materials (Flahive, col. 3: 5- 30).

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vogt et al. (US. 6,274,570) as applied to claim 1 above in view of Flahive (US. 5,965,487).

Regarding claim 26, Vogt et al. teach the composition as described in claim 1, wherein the surfactants or emulsifiers include polyoxyalkylene tristyrylphenyl ether (tristyrenephenol ethoxylate (col. 2: 1-5) and calcium salt of alkylbenzene sulfonate (col. 2: 1-67). However, Vogt et al. do not teach the composition comprising dialkylsuccinic acid. Flahive teaches the herbicidal composition comprising sodium di-2-ethylhexyl sulfosuccinate. Vogt et al. and Flahive are analogous arts because they are in the same filed of endeavor, namely, herbicidal composition. At the time of the invention, it would have been obvious to one of ordinary skill in the art to add sodium di-2-ethylhexyl

sulfosuccinate in the teaching of Flahive into the teaching of Vogt et al.. The motivation would be to improve the dilution properties of the active materials (Flahive, col. 3: 5-30).

Response to Arguments

Applicant's arguments of the rejections of claims 1- 20 and 22 - 26 filed on April 21, 2009 have been fully considered but they are not persuasive.

Applicant argues that Vogt and the present invention are different that Vogt discloses a composition comprising mixture of both water immiscible and water miscible solvent or water immiscible solvent while present invention composition comprises aqueous solvents only. Because the claim is written as an "opened" claim, and do not exclude the water immiscible solvent of Vogt et al., the claim is unpatentable over Vogt.

Second, Vogt et al. also disclose microemulsion composition is obtained from diluting the gel composition with water (col. 8: claim 36) which meet the microemulsion composition of the invention.

Third, although Vogt et al. disclose some different surfactants in addition to the surfactants said in the claim, the present invention is not patentably distinguishable from Vogt et al. because Vogt et al. encompass all surfactants as said in the claim.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THUY-AI N. NGUYEN whose telephone number is

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(571)270-3294. The examiner can normally be reached on Monday-Friday: 8:30 a.m. - 5:00 p.m. eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on 571-272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo/ THA Supervisory Patent Examiner, Art Unit 1796